User Guide
Powerline Adapter AV200

Ⓢimple audio

Thank you for choosing the Simple Audio
Powerline Adapter AV200

Package contents
Powerline Adapter AV200
Ethernet (CAT5) Cable
User Guide

Contents

Safety instructions
Please read the following safety information before operating your Powerline Adapter.

- Read these instructions.
- Keep these instructions.
- Heed all warnings.
- Follow all instructions.
- Do not use the apparatus near water.
- Clean only with a dry cloth.
- Do not block any ventilation openings.
- Install in accordance with the manufacturer's instructions.
- Do not install the device near any heat sources such as heaters, radiators or other apparatus that produce heat.
- Unplug the device during lightning storms or when unused for long periods.
- Refer all servicing to qualified service personnel. Servicing is required if the plug has been damaged, liquid has been spilled, the device has been exposed to rain or moisture, has been dropped, or does not operate normally.
- Connect the apparatus to a power supply only of the type described in the operating instructions or marked on the device marking plate. If you do not know what type of supply you have, contact your dealer or energy supplier.
- To disconnect the device from the mains supply, pull the plug from the wall outlet or receptacle.
- To switch the device off, pull the plug from the wall outlet or receptacle.
- Do not let objects or liquids fall into the device. Do not expose the device to dripping or splashing.
- No naked flame sources should be placed near to or on the device.
- Always use the supplied network cable to connect the device.

CAUTION
- To reduce the risk of electric shock do not remove the cover.
- There are no user serviceable parts inside.
- Refer servicing to qualified personnel.

Welcome
Get ready to set up a Powerline communications network in your home.

Your new adapter makes it even easier for you to set up a Powerline network and gives you the freedom to locate your first Roomplayer anywhere you want in your home.

It's really easy to set up. Connect your new Powerline Adapter to your router using the Ethernet (CAT5) cable supplied then pair your adapter with your first Roomplayer. Make sure you follow the instructions on page 8, which will tell you when to apply power and how to initiate the pairing process.

Please note that Powerline technology performs best over unfiltered mains wiring. If you have any power adapters or filtered sockets on your electrical circuits, we recommend removing these for optimum performance.
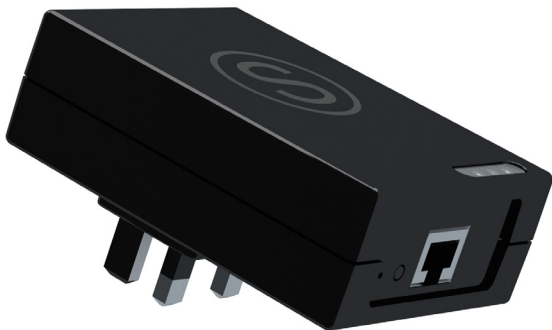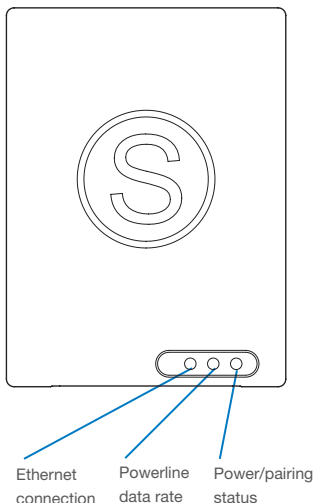

This Powerline Adapter meets the widely adopted Homeplug AV standard.
Find out more at www.homeplug.org.

Powerline Adapter basics
Find out where the sockets are, what the buttons do and what the lights mean.

Front panel

Ethernet connection

Powerline data rate

Power/pairing status

Power/pairing status light
This light indicates that the plug is switched on/off and shows the pairing status.

Green light on: Power on
Green light off: Power off
Flash once per second: Pairing mode
Flash every 15 seconds: Standby mode - no Ethernet connection detected after 3 minutes

Powerline data rate light
This light indicates a connection to a Powerline network and its colour indicates the overall network speed.

Red light: Weak signal / slow network speed (under 50Mbps)
Orange light: Normal signal / standard network speed (50-100Mbps)
Green light: Excellent signal / optimal network speed (100Mbps +)
No light: No powerline network detected

Ethernet connection light
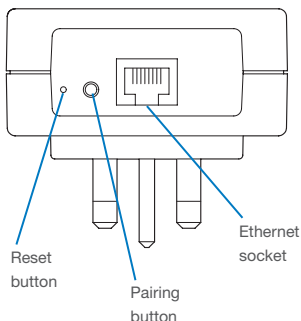This light indicates an active Ethernet connection.

Solid Green: 10/100Mbps port linked
Blinking: 10/100Mbps port transmitting or receiving
Off: No Ethernet connection

Powerline Adapter basics continued

Underside panel

Reset button

Pairing button

Ethernet socket

Pairing button
Use this button to pair your Powerline Adapter with your Roomplayer. Make sure you follow the detailed pairing instructions on page 8.

To set up your adapter for the first time, plug it in and switch it on, then press and hold this button for 10 seconds (until all the lights on the front panel flash twice). This will prepare the Powerline Adapter for pairing. To create or join an existing network, press and hold this button for 2 seconds to enter 'pairing' mode.

Reset button
Use this button only if advised by Simple Audio. Use a small object to press and hold this button for 2-3 seconds. Release the button and all the status lights will flash to confirm that your Powerline Adapter has been reset.
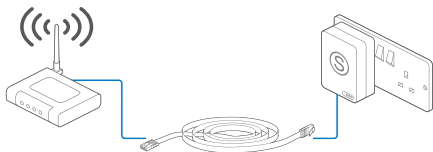
Ethernet socket
Use this socket to connect your Powerline Adapter to your router using the Ethernet cable provided.

Set up your Powerline Adapter
Follow these steps in order to set up and pair your Powerline Adapter.

Important: Always apply power to your Powerline Adapter before your Roomplayer. If your Roomplayer is switched on, please turn it off at the mains socket before you start.

Step 1 Connect your Powerline Adapter to your router

i. Connect one end of your Ethernet Cable to your Powerline Adapter.
ii. Connect the other end of your Ethernet Cable to your router.
iii. Plug your Powerline Adapter into a mains socket.

Step 2 Pair your Powerline Adapter with your Roomplayer

Apply power to adapter first
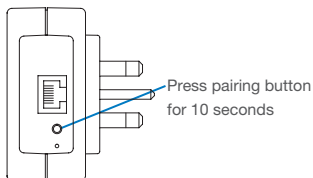
Press pairing button for 10 seconds

Pairing light
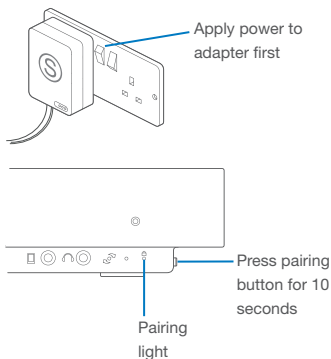
i. Apply power
Apply power to your Powerline Adapter and then apply power to your Roomplayer.

ii. Activate your Roomplayer
Press and hold the pairing button on your Roomplayer for approximately 10 seconds. Release the button after the green light flashes twice. The Roomplayer is now ready for pairing.

Set up your Powerline Adapter continued

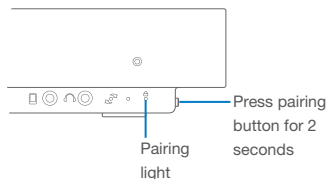Press pairing button
for 10 seconds

iii. Activate your Powerline Adapter
Press and hold the pairing button
on your Powerline Adapter for
approximately 10 seconds. Release
the button after the green power light
on the front panel flashes twice. Your
Powerline Adapter is now ready for
pairing.

Press pairing button
for 2 seconds
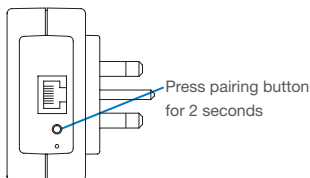
iv. Pair your Powerline Adapter
Press the pairing button on your
Powerline Adapter for 2 seconds
and release. The green power light
will begin to flash. You now have
2 minutes to complete the pairing
process.

Press pairing
button for 2
seconds

Pairing
light

v. Pair your Roomplayer
Press the pairing button on your
Roomplayer for 2 seconds and
release. The pairing light on your
Roomplayer will begin to flash and
after a short period both devices
will pair.

Powerline
data rate
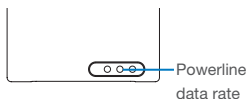
vi. Check pairing is complete
On completion, the Powerline
Adapter data rate light will illuminate
indicating an active Powerline network
connection.

Product specifications

Chipset	Atheros AR6400
Computer Interface	IEEE802.3 (10BASE-T) IEEE802.3u (100BASE-T)
Data PHY Rate	Up to 200 Mbps
Standards	HomePlug AV 200
Network Interface	One RJ-45 (10/100Base-T Ethernet) One 200Mbps HomePlug AV Powerline Port supporting co-existence with HomePlug 1.0 4/85Mbps)
Security	128-bit AES Link Encryption with Key Management
Frequency Band	2-28 MHz
Modulation Schemes	OFDM symbol modulation on-line synchronization 1024/256/64/16/8 - QAM, QPSK, BPSK, ROBO carrier modulation
Additional Protocols	Mix of TDMA and CSMA/CA channel access scheme; CcO device generates a periodic beacon carrier for channel access scheme
Operation Range	Estimated range of 300 metres
Cabling	Cat. 5 UTP Cable
Operating Temperature	0°C to 40°C ambient temperature
Storage Temperature	-20°C to 70°C ambient temperature
Power Input	100~240V~, 50-60Hz, 0.2A
Certifications	CE Mark (LVD, EMC, WEEE)

Warranty

Two Year EU Warranty

A Two Year Warranty is offered exclusively to the original purchaser of a Simple Audio product and is not transferable whether upon the subsequent sale of a Simple Audio product by you or otherwise. No registration is required. You must however present your original, dated Simple Audio sales receipt or other proof of purchase if warranty is required.

1. What is included in this Warranty?

If a Simple Audio product is defective in normal domestic use due to a fault in materials or workmanship Simple Audio ("Simple Audio") will at its discretion either regulate, adjust, repair or replace it free of charge, within a reasonable time after such product is returned to Simple Audio's address as detailed below. This Two Year Warranty covers the cost of parts and associated labour required to correct such defects in materials and workmanship intimated to your retailer or Simple Audio during a period of Two Years from the original date of purchase.

2. What is excluded from this Warranty?

This Two Year Warranty does NOT cover:

a) damage to Simple Audio products while in possession of a shipper, retailer, or consumer and not caused by defects in materials or workmanship;

b) damage to Simple Audio products arising due to or from normal wear and tear;

c) damage or defects caused by abnormal or unreasonable use (including repairs or alterations of products by a person other than Simple Audio or its nominated repair centres);

d) damage, defects, deterioration, malfunction or failure to meet performance specifications resulting from:

(i) accident, acts of nature, misuse, abuse, neglect or unauthorised product modification

(ii) improper installation, removal or maintenance, or failure to follow instructions supplied with the product

(iii) repair or attempted repair by any person not authorised by Simple Audio to repair the product

(iv) shipment of the product (claims to be presented to your retailer to be passed on to the carrier)

(v) any cause other than a product defect due to a fault in materials or workmanship

e) cleaning, initial set-up, check-ups with no defects found, or charges incurred for installation of the product;

f) any product on which the serial number has been defaced, modified or removed;

g) accessories, including but not limited to cables, mounting hardware and brackets, cleaning accessories, antenna and detachable power cords;

h) any Simple Audio product purchased outside the European territories comprising the European Economic Area (ie the member states of the European Union and the European Free Trade Association).

Warranty continued

3. What Simple Audio will do and pay for if you qualify for this cover and how Simple Audio will provide the required service.
Simple Audio will pay for all parts and labour covered by this Two Year Warranty. You must pay all shipping charges if it is necessary to return the product to Simple Audio or your retailer. However, if the required repairs etc. are covered by this Two Year Warranty Simple Audio will pay for the return shipping to any destination within the European territories of the European Economic Area. Whenever warranty service is required you must present the original dated sales receipt or other proof of purchase.

4. How do you get service?
If you think that your product needs service, contact your original retailer who will advise you regarding packing your product if return to his shop is required. Most simple faults can be corrected by your retailer so do not return your product to Simple Audio without consulting your retailer or receiving approval from Simple Audio.

5. Legal status
This Two Year Warranty is given without prejudice to (and does not affect) your legal or other rights as a consumer applicable in any relevant territory. Nothing herein shall be construed as an express or implied warranty in respect of the future performance of any Simple Audio product (including any product or replacement product which is regulated, adjusted, repaired or replaced by Simple Audio under this Two Year Warranty). Although the contents of this user guide have been checked thoroughly for errors, Simple Audio cannot guarantee that it is correct throughout. Simple Audio does not accept responsibility for any misleading or incorrect information within the guide.

EC Declaration of Conformity

Simple Audio Ltd declares under our sole responsibility that the named product is in conformance with 2006/95/EC (Low Voltage Directive) and 2004/108/EC (Electromagnetic Compatibility Directive) as amended.

Manufacturer: Simple Audio Ltd
Product Name: Powerline Adapter AV200
Product Type: PLC Wall Adapter

The conformity of the designated product with the essential requirements and provisions of 2006/95/EC and 2004/108/EC has been proven by compliance with the following standards and methods:

Electromagnetic Compatibility (EMC)

Emission   EN55022:2006 + A1:2007

                         EN61000-3-3:2008

Immunity   EN50412-2-1:2005

                         (IEC61000-4-2:2008)

                         (IEC61000-4-3:2006 + A1:2007)

                         (IEC61000-4-4:2004)

                         (IEC61000-4-5:2005)

                         (IEC61000-4-6:2003 + A1:2004 + A2:2006)

                         (IEC61000-4-8:2009)

                         (IEC61000-4-11:2004)

Low Voltage Directive (Safety)

EN60950-1:2006 + A11:2009

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Contact

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Disposal
This product needs to be recycled at the end of its life, according to EU guideline RL2002/96/EG WEEE - Directive on Waste Electrical and Electronic Equipment which is valid for all European Countries. When disposal is not possible, 'Simple Audio Ltd' can do recycling for you. In this instance, the device must be sent, free of all costs*, to the address noted on our website.

*Shipments that are not prepaid will be rejected and returned to sender at the original senders cost.

For more assistance visit
the Simple Audio website:

www.simpleaudio.com/support

www.simpleaudio.com